

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 765 AND APPEAL LANE/TOWN SQUARE DRIVE IN CALVERT COUNTY. THE MD 765 LEFT TURNS WILL BE CONVERTED TO EXCLUSIVE LEFTS AND THE APPEAL LANE/TOWN SQUARE DRIVE APPROACHES WILL BE MODIFIED TO BE SPLIT PHASE. THE PROJECT ALSO INCLUDES THE INSTALLATION OF COUNTDOWN PEDESTRIAN TRAFFIC SIGNALS, PAVEMENT MARKINGS AND SIGNING. MD 765 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A SIX PHASE FULL TRAFFIC ACTUATED MODE WITH THE MD 765 APPROACHES RUNNING CONCURRENTLY AND THE SIDE STREET APPROACHES OPERATING AS SPLIT PHASES. EXCLUSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE MD 765 APPROACHES. ALTERNATE PEDESTRIAN PHASING IS PROVIDE ACROSS THE SOUTH LEG OF MD 765. A PEDESTRIAN PHASE ACROSS TOWN SQUARE DRIVE OPERATES CONCURRENTLY WITH PHASES 2 AND 6.

CONTROLLER REQUIREMENTS

AN EXISTING FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE MOUNTED CABINET (NEMA SIZE 6) WITH INTERSECTION MONITOR AND BATTERY BACK-UP FOR PHONE DROP IS CURRENTLY IN USE.

PROJECT CONTACTS

CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
UTILITY ENGINEER
(410) 841-1005

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9571	53 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN (2) R10-10 24"x30" - MAST ARM MOUNT (4) D-3(2) VAR.X16" - MAST ARM MOUNT
9570	63 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (5) S1-1 36"x36" BLACK ON FYG (1) S4-3 36"x12" BLACK ON FYG (4) W16-7P 21"x15" BLACK ON FYG (1) R5-1 30"x30"

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
5003	750 LF	12 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8028	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT PER ASSIGN
8042	100 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
8063	63 SF	INSTALL GROUND MOUNTED SIGN
8064	53 SF	INSTALL OVERHEAD SIGN
8078	1050 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8079	500 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8003	14 EA	FURNISH AND INSTALL 12 INCH YELLOW LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8024	4 EA	16 INCH LED COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL
8031	40 SF	DETECTABLE WARNING SURFACES
8002	32 EA	FURNISH AND INSTALL 12 INCH RED OR GREEN LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

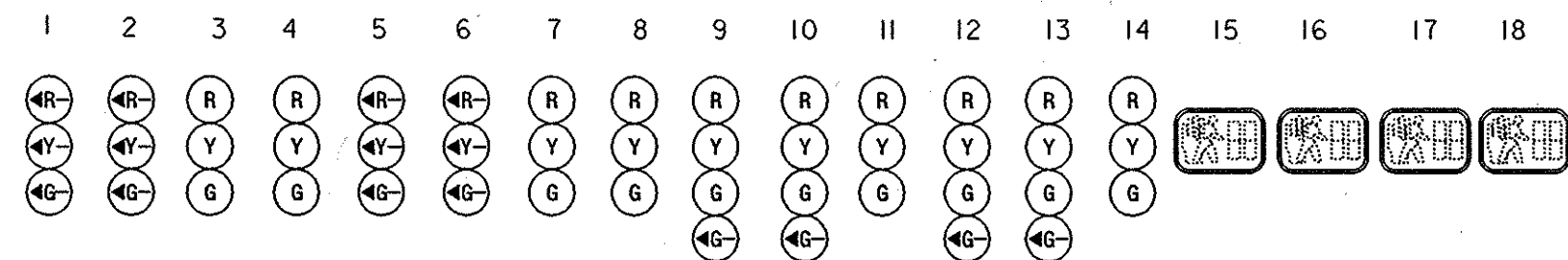
EQUIPMENT LIST "C"

C. MATERIAL TO BE REMOVED AND RETURNED TO SHA

ALL MATERIALS REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR

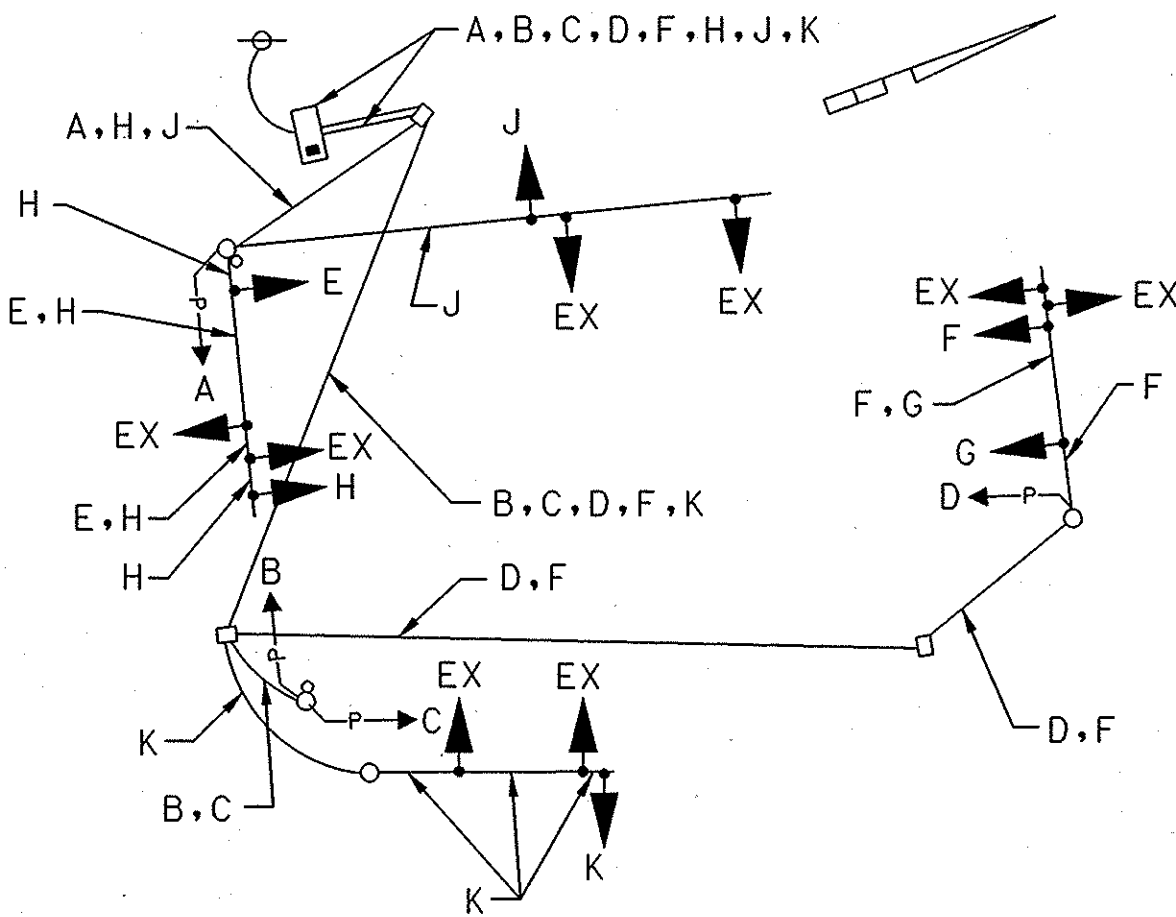


PHASE CHART



PHASE 1+5	◀G-◀G-	R	R	◀G-◀G-	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1+6	◀G-◀G-	G	G	◀R-◀R-	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1+6 CHANGE	◀Y-◀Y-	G	G	◀R-◀R-	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2+5	◀R-◀R-	R	R	◀G-◀G-	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
2+5 CHANGE	◀R-◀R-	R	R	◀Y-◀Y-	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2+6	◀R-◀R-	G	G	◀R-◀R-	G	G	R	R	R	R	R	R	R	R	WK	WK	DW	DW
PED CLR./COUNTDOWN	◀R-◀R-	G	G	◀R-◀R-	G	G	R	R	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2+6 CHANGE	◀R-◀R-	Y	Y	◀R-◀R-	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	◀R-◀R-	R	R	◀R-◀R-	R	R	◀G-/◀G-/◀G-/◀G-	G	R	R	R	R	R	R	DW	DW	DW	DW
3 CHANGE	◀R-◀R-	R	R	◀R-◀R-	R	R	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 3 ALT	◀R-◀R-	R	R	◀R-◀R-	R	R	◀G-/◀G-/◀G-/◀G-	G	R	R	R	R	R	R	DW	DW	WK	WK
PED CLR./COUNTDOWN	◀R-◀R-	R	R	◀R-◀R-	R	R	◀G-/◀G-/◀G-/◀G-	G	R	R	R	R	R	R	DW	DW	FL/DW	FL/DW
PH 3 ALT CHANGE	◀R-◀R-	R	R	◀R-◀R-	R	R	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4	◀R-◀R-	R	R	◀R-◀R-	R	R	R	R	R	R	◀G-/◀G-/◀G-/◀G-	G	R	R	DW	DW	DW	DW
4 CHANGE	◀R-◀R-	R	R	◀R-◀R-	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	◀FL/R-◀FL/R-	FL/Y	FL/Y	◀FL/R-◀FL/R-	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B,C,D,E,F,G	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
H,J,K	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
EX	USE EXISTING CABLE

NOTES:

1. ALL UNUSED CABLES SHALL BE REMOVED
2. UNLESS OTHERWISE NOTED ALL EXISTING CABLES SHALL BE USED TO RE-WIRE NEW TRAFFIC SIGNAL HEADS
3. LOOP DETECTORS ARE NOT SHOWN FOR CLARITY

TOD No: AT782-02
SHA: CA456A51/B51

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 765 (H G. TRUEMAN ROAD) AT APPEAL LANE / TOWN SQUARE DRIVE	
GENERAL INFORMATION SHEET	
SCALE <u>NONE</u>	DATE <u>AUGUST 2005</u> CONTRACT NO. <u>AT782S195</u>
DESIGNED BY <u>DAESMH</u>	COUNTY <u>CALVERT</u>
DRAWN BY <u>DAESMH</u>	LOGMILE <u>04076502.35</u>
CHECKED BY <u>BLBSMH</u>	TMS NO. <u>H118</u>
FAP NO. <u></u>	TOD NO. <u></u>
TS NO. 3997-A	DRAWING OF SHEET NO. 2 OF 2

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